

S/N UNKNOWN

#4A  
RD  
6-28-01  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Thomas R. Adams et al.

Examiner: Unknown

Serial No.: Unknown

Group Art Unit: Unknown

Filed: Herewith

Docket: 950.030US2

Title: TRANSGENIC MAIZE WITH INCREASED MANNITOL CONTENT

PRELIMINARY AMENDMENT

BOX PATENT APPLICATION

Commissioner for Patents

Washington, D.C. 20231

Sir:

Prior to taking up the above-identified patent application for review, please amend the application as follows:

IN THE SPECIFICATION

On page 1, line 6, after "This application" please insert I is a divisional application of U.S. application Serial No. 08/599,714, filed January 19, 1996, allowed, which --.

On page 1, line 7, after "which", please delete "is" and insert --are-- therefor.

IN THE CLAIMS

✓✓  
Please cancel claims 1-58 without prejudice.

Please add the following new claims:

- A<sup>2</sup>
59. (New) A transformed monocot plant, which plant is substantially tolerant or resistant to a reduction in water availability, the cells of which comprise a recombinant DNA segment comprising a preselected DNA segment encoding an enzyme which catalyzes the synthesis of the osmoprotectant proline, wherein the enzyme is expressed in an amount effective to confer tolerance or resistance to the transformed plant to a reduction in water availability.
60. (New) The transformed plant of claim 59 wherein the transformed plant has an improved osmotic potential when the total water potential of the transformed plant approaches zero.